## CHILCO SERVICE AREA (PWSNO 1280048) SOURCE WATER ASSESSMENT REPORT

July 31, 2001



## State of Idaho Department of Environmental Quality

**Disclaimer:** This publication has been developed as part of an informational service for the source water assessments of public water systems in Idaho and is based on the data available at the time and the professional judgement of the staff. Although reasonable efforts have been made to present accurate information, no guarantees, including expressed or implied warranties of any kind, are made with respect to this publication by the state of Idaho or any of its agencies, employees, or agents, who also assume no legal responsibility for the accuracy of presentations, comments, or other information in this publication. The assessment is subject to modification if new data is produced.

## **Executive Summary**

Under the Safe Drinking Water Act Amendments of 1996, all states are required by the U.S. Environmental Protection Agency to assess every source of public drinking water for its relative sensitivity to contaminants regulated by the act. This risk assessment is based on a land use inventory in the well recharge zone, sensitivity factors associated with how the well was constructed, and aquifer characteristics.

This report, *Source Water Assessment for Chilco Service Area*, describes the public drinking water wells; the well recharge zone and potential contaminant sites located inside the recharge zone boundaries. This assessment, taken into account with local knowledge and concerns, should be used as a planning tool to develop and implement appropriate protection measures for this public water system. **The results should not be used as an absolute measure of risk and they should not be used to undermine public confidence in the water system.** 

A well field pumping from the Rathdrum Prairie Aquifer supplies Chilco Service Area drinking water. The water system, owned by North Kootenai Water District, serves a population of about 90 people in the Chilco Estates development between Chilco and Athol in Kootenai County, Idaho. Historically, Chilco Service Area has had few water quality problems. A groundwater Susceptibility Analysis conducted by DEQ June 6, 2001 found the wells to be at moderate risk of contamination, mostly because of natural factors associated with local geology.

This assessment should be used as a basis for determining appropriate new protection measures or reevaluating existing protection efforts. No matter what ranking a source receives, protection is always important. Whether the source is currently located in a "pristine" area or an area with numerous industrial and/or agricultural land uses that require education and surveillance, the way to ensure good water quality in the future is to act now to protect valuable water supply resources.

In its own jurisdiction, Chilco Service Area should concentrate on public education efforts promoting ground water protection. Topics could include back flow prevention, especially from irrigation systems and stock tanks. Another important subject in a rural neighborhood is proper septic system maintenance. Water users can be invited to participate in voluntary ground water protection activities like household hazardous materials collection days. Local participation in development of long term management and contingency plans for the recharge zone should be encouraged.

Because 186 public water systems in Idaho draw water from the Rathdrum Prairie Aquifer, they should consider forming a regional group to represent their interests before state, county and municipal governing bodies when regulatory tools like zoning overlays, or enactment of building codes are the most appropriate ground water protection measures. Partnerships with state and local agencies and industry groups should also be established.

Due to the time involved with the movement of ground water, source water protection activities should be aimed at long-term management strategies even though these strategies may not yield results in the near term. For assistance in developing protection strategies, please contact your regional Department of Environmental Quality office or the Idaho Rural Water Association.

## SOURCE WATER ASSESSMENT FOR CHILCO SERVICE AREA

#### **Section 1. Introduction - Basis for Assessment**

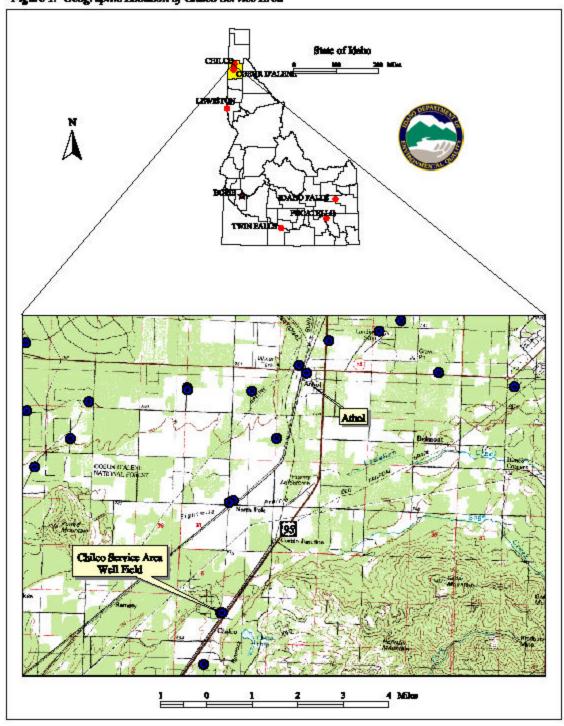
The following sections contain information necessary for understanding how and why this assessment was conducted. It is important to review this information to understand what the ranking of this source means. A map showing the delineated source water assessment area and an inventory of significant potential sources of contamination identified within that area are included. The ground water susceptibility analysis worksheets used to develop this assessment are attached.

#### Level of Accuracy and Purpose of the Assessment

The Idaho Department of Environmental Quality (DEQ) is required by the U.S. Environmental Protection Agency (EPA) to assess every public drinking water source in Idaho for its relative susceptibility to contaminants regulated by the Safe Drinking Water Act. These assessments are based on a land use inventory inside the delineated recharge zones, sensitivity factors associated with how the well is constructed, and aquifer characteristics. The state must complete more than 2900 assessments by May of 2003. Because resources and the time available to accomplish assessments are limited, an in-depth, site-specific investigation for every public water system is not possible.

The results of the source water assessment should <u>not be</u> used as an absolute measure of risk and they should <u>not be</u> used to undermine public confidence in the water system. The ultimate goal of this assessment is to provide data to local communities for developing a protection strategy for their drinking water supply. The Idaho Department of Environmental Quality recognizes that pollution prevention activities generally require less time and money to implement than treating a public water supply system once it has been contaminated. DEQ encourages communities to balance resource protection with economic growth and development. The decision as to the amount and types of information necessary to develop a source water protection program should be determined by the local community based on its own needs and limitations. Wellhead or source water protection is one facet of a comprehensive growth plan, and it can complement ongoing local planning efforts.

Figure 1. Geographic Location of Chilco Service Area



## **Section 2. Preparing for the Assessment**

## **Defining the Zones of Contribution - Delineation**

The delineation process establishes the physical area around a well that will become the focal point of the assessment. The process includes mapping the boundaries of the well recharge area into time of travel (TOT) zones indicating the number of years necessary for a particle of water to reach a well. DEQ used a refined computer model approved by the EPA to determine the time of travel for water pumped by public water systems from the Rathdrum Prairie Aquifer. The computer model used data assimilated by DEQ from a variety of sources including local well logs

Chilco Service Area serves a population of about 90 people located in a rural residential development near Chilco in Kootenai County, Idaho (Figure 1). Public drinking water for Chilco Service Area customers is supplied from a well field, comprised of two wells.

Well #1 has a capacity of about 250 GPM. Well #2, located about 150 feet west of Well #1, was redeveloped in August 2000 to produce 200 GPM. Although it is only about 500 feet long, the delineation for the Chilco Service Area well field is divided into 0-to-3; 3-to-6 and 6-to-10-year time-of-travel zones.

#### **Identifying Potential Sources of Contamination**

The goal of the inventory process is to locate and describe those facilities, land uses, and environmental conditions that are potential sources of ground water contamination. Inventories for public water systems in Idaho were conducted in two-phases. The first phase involved identifying and documenting potential contaminant sources within the Chilco Service Area source water assessment areas through the use of computer databases and Geographic Information System maps developed by DEQ. The second, or enhanced, phase of the contaminant inventory involved contacting the operator to validate the sources identified in phase one and to add any additional potential sources in the area. This task was undertaken with the assistance of Richard Fairhurst.

Figure 2, *Chilco Service Area Delineation and Potential Contaminant Inventory* on page 7 of this report shows the locations of the Chilco Service Area wells, the zones of contribution DEQ delineated for the wells, and approximate locations of potential contaminant sites. Sites numbered on the map are identified on Table 2.

Many potential sources of contamination are regulated at the federal level, state level, or both to reduce the risk of release. When a business, facility, or property is identified as a potential contaminant source, this should not be interpreted to mean that this business, facility, or property is in violation of any local, state, or federal environmental law or regulation. What it does mean is that the <u>potential</u> for contamination exists due to the nature of the business, industry, or operation.

## **Section 3. Susceptibility Analysis**

The susceptibility of the Chilco Service Area wells to contamination was assessed on the following factors:

- physical integrity of the wells,
- hydrologic characteristics,
- land use characteristics, and potentially significant contaminant sources
- historic water quality

The susceptibility rankings are specific to a particular potential contaminant or category of contaminants. A high susceptibility rating relative to one potential contaminant does not mean that the water system is at the same risk for all other potential contaminants. The relative ranking that is derived for each well is a qualitative, screening-level step that, in many cases, uses generalized assumptions and best professional judgement. The following summaries describe the rationale for the susceptibility ranking. The Susceptibility Analysis Worksheets, Attachment A, show in detail how each well scored.

#### **Well Construction**

Well construction directly affects the ability of the wells to protect the aquifer from contaminants. Lower scores imply a well that can better protect the water. This portion of the susceptibility analysis relies on information from individual well logs and from the most recent sanitary survey of the public water system. There is no well driller's report for Well #1 in the public water system file for Chilco Service Area. The last Sanitary Survey for the system was conducted October 24, 2000.

The Chilco Service Area drinking water is supplied two wells that extract ground water from the Rathdrum Prairie Aquifer, primarily for domestic uses. No treatment is required before the water enters the distribution system. The year 2000 Sanitary Survey says that system is generally well run and in compliance with *Idaho Rules for Public Drinking Water Systems*.

Well #1 was drilled in 1982 to a reported depth of 180 feet. Details about the 10-inch casing and surface seal are not known. Well #2, drilled in 1994, is 147 feet deep. The 12-inch casing has a wall thickness of 0. 25 inches. Current standards call for wall thickness of at least 0.375 inches for 12-inch steel casing. The casing is perforated from 130 to 145 feet. Ground water in the well was first encountered between 68 and 102 feet. The cement surface seal is 80 feet deep, terminating in a water-bearing stratum of sand and gravel. The surface seal depth exceeds current Idaho Department of Water Resources standards for wells in an unconsolidated formation, but points were marked against the well because the casing and seal both terminate in permeable units. An engineering report on Well #2, dated February 8, 2001, indicates that no drive shoe was used in when the well was constructed.

Table 1. Selected Construction Characteristics of Chilco Service Area Wells.

| Well    | Total Depth | Depth of Surface | Depth of Casing (ft) | Well Screen Depth | Static Water Level |
|---------|-------------|------------------|----------------------|-------------------|--------------------|
|         | (ft.)       | Seal (ft)        |                      | Range (ft)        | (ft                |
| Well #1 | 180         | Unknown          | Unknown              | Unknown           | Unknown            |
| Well #2 | 147         | 80               | 147                  | 130/145           | 90                 |

116'45' 1164429 METALLICET GOLD AVE 1 ZINC DR **6 0** 2 200 11845 1164475 2000 Rost PWS # 1280048 Well Field

Figure 2. Chilco Service Area Delineation and Potential Contaminant Inventory.

## **Hydrologic Sensitivity**

Hydrologic sensitivity scores reflect natural geologic conditions at the well sites and in the recharge zones. Information for this part of the analysis is derived from the well log and from the soils drainage classification for the well recharge zone.

Both of the Chilco Service Area wells scored 6 points out of 6 points possible in this portion of the Susceptibility Analysis. Soils in the recharge zone for the wells are generally well drained. Soils that drain quickly are deemed less protective of ground water than slowly draining soils. Sand, gravel and cobbles fill the soil strata between the topsoil and the water table. There is no significant clay layer retarding the vertical transport of contaminants. The depth to ground water in the wells is less than 300 feet, reducing the opportunity for potential contaminant attenuation through adsorption and other mechanisms.

#### **Potential Contaminant Sources and Land Use**

Land use in the Chilco Service Area well recharge zone is mostly undeveloped woodland. Two gravel roads maintained by the county cross the delineation boundaries. A rail line crosses the 10-year time of travel zone for the wells. Highway 95 is east of the delineation, but both wells are within 600 feet of this heavily traveled road (Figure 2).

Table 2, *Chilco Service Area Potential Contaminant Inventory* summarizes information about the sites identified inside the delineation. The gravel roads were not counted as potential contaminant sites in the Susceptibility Analysis because they are probably not significant threats to the wells. The railroad crossing the 10-year time of travel zone for the wells was counted because of the volume of traffic on it.

Table 2. Chilco Service Area Potential Contaminant Inventory.

| MAP ID | SITE DESCRIPTION | SOURCE OF   | POTENTIAL CONTAMINANTS <sup>1</sup> |
|--------|------------------|-------------|-------------------------------------|
| NUMBER |                  | INFORMATION |                                     |
| 1      | Gravel Roads     | County Maps |                                     |
| 2      | Railroad         | USGS Map    | IOC, SOC VOC                        |

<sup>&</sup>lt;sup>1</sup> IOC = inorganic chemical, VOC = volatile organic chemical, SOC = synthetic organic chemical

## **Historic Water Quality**

Historically, Chilco Service Area has had few water quality problems. The system tests monthly for bacteria. There was an isolated instance of microbial contamination in the distribution system reported in March 1996. Bacteria present in well samples in August 2000 were due to construction activities.

Nitrate concentrations have ranged between undetectable levels and 0.50 mg/l since annual testing began in 1985. The Maximum Contaminant Level (MCL) for nitrate is 10 mg/l.

Synthetic organic compounds and volatile organic compounds have never been detected in the wells. Radiological contaminants in concentrations far below MCL have been present since testing began in 1984. Very low concentrations of various regulated inorganic compounds have detected since the initial sample taken in 1982, but none of them have been persistently present in the water.

#### **Final Susceptibility Ranking**

The Chilco Service Area wells ranked moderately susceptible to all classes of regulated contaminants, mostly because of naturally occurring geological factors associated with the Rathdrum Prairie Aquifer. Cumulative scores for the wells are summarized on Table 3. A complete Susceptibility Analysis worksheet for each well can be found in Attachment A.

The final scores for the susceptibility analysis were determined using the following formulas:

- 1) VOC/SOC/IOC Final Score = Hydrologic Sensitivity + System Construction + (Potential Contaminant/Land Use x 0.2)
- 2) Microbial Final Score = Hydrologic Sensitivity + System Construction + (Potential Contaminant/Land Use x 0.35)

The final ranking categories are as follows:

- 0 5 Low Susceptibility
- 6 12 Moderate Susceptibility
- > 13 High Susceptibility

Table 3. Summary of Chilco Service Area Susceptibility Evaluation

| Susceptibility Scores        |   |             |          |     |         |           |  |
|------------------------------|---|-------------|----------|-----|---------|-----------|--|
|                              | System Hydrologic Contaminant Inventory |             |          |     |         | ntory     |  |
| Well                         | Construction                            | Sensitivity | IOC      | VOC | SOC     | Microbial |  |
| Well #1                      | 4                                       | 6           | 2        | 2   | 2       | 0         |  |
| Well #2                      | 4                                       | 6           | 2        | 2   | 2       | 0         |  |
| Final Susceptibility Ranking |   |             |          |     |         |           |  |
|                              | IOC                                     |             | VOC      | ,   | SOC     | Microbial |  |
| Well #1                      | Moderat                                 | e M         | Ioderate | Mo  | oderate | Moderate  |  |
| Well #2                      | Moderate                                |             | Ioderate | Mo  | oderate | Moderate  |  |

 $IOC = inorganic\ chemical,\ VOC = volatile\ organic\ chemical,\ SOC = synthetic\ organic\ chemical$ 

HIGH\* - Indicates source automatically scored as high susceptibility due to presence of bacteria or a VOC, SOC or an IOC above the maximum contaminant level in the tested drinking water

## **Section 4. Options for Source Water Protection**

The susceptibility assessment should be used as a basis for determining appropriate new protection measures or re-evaluating existing protection efforts. No matter what the susceptibility ranking a source receives, protection is always important. Whether the source is currently located in a "pristine" area or an area with numerous industrial and/or agricultural land uses that require education and surveillance, the way to ensure good water quality in the future is to act now to protect valuable water supply resources.

An effective source water protection program is tailored to the particular local source water protection area. The state and local health districts have instituted enhanced protection of the ground water in the Rathdrum Prairie Aquifer because of its high use and uniquely pristine water quality. The protections are generally aquifer wide and are not aimed at zones of contribution to a specific well or water system. *The Spokane Valley-Rathdrum Prairie Atlas*, sent to water systems on the prairie when they were invited to perform an enhanced contaminant inventory, describes some of the regional protection measures.

The 186 public water systems in Idaho that draw water from the Rathdrum Prairie Aquifer should consider forming a regional group to represent their interests before state, county and municipal governing bodies when regulatory tools like zoning overlays, or enactment of building codes are the most appropriate ground water protection measures. These types of measures could be used to protect the capture zones of a specific system or group of wells that could be put at risk from local land use changes. Partnerships with state and local agencies and industry groups should also be established. For instance, source water protection activities for agriculture should be coordinated with the Idaho State Department of Agriculture, local Soil Conservation District, and the Natural Resources Conservation Service.

In its own jurisdiction, Chilco Service Area should concentrate on public education efforts promoting ground water protection. Topics could include back flow prevention, especially from irrigation systems and stock tanks. Another important subject in a rural neighborhood is proper septic system maintenance. Water users can be invited to participate in voluntary ground water protection activities like household hazardous materials collection days. Local participation in development of long term management and contingency plans for the recharge zone should be encouraged.

Due to the time involved with the movement of ground water, wellhead protection activities should be aimed at long-term management strategies even though these strategies may not yield results in the near term.

#### Assistance

Public water suppliers and users may call the following IDEQ offices with questions about this assessment and to request assistance with developing and implementing a local protection plan. In addition, draft protection plans may be submitted to the IDEQ office for preliminary review and comments.

Coeur d'Alene Regional DEQ Office (208) 769-1422

State IDEQ Office (208) 373-0502

Website: <a href="http://www.deq.state.id.us">http://www.deq.state.id.us</a>

Water suppliers serving fewer than 10,000 persons may contact John Bokor, Idaho Rural Water Association, at (208) 343-7001 for assistance with wellhead protection strategies.

#### **References Cited**

Great Lakes-Upper Mississippi River Board of State and Provincial Public Health and Environmental Managers, 1997. "Recommended Standards for Water Works."

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Idaho Department of Water Resources, 1993. Administrative Rules of the Idaho Water Resource Board: Well Construction Standards Rules. IDAPA 37.03.09.

Natural Resource Conservation Service, 1991. Idaho Snake-Payette Rivers Hydrologic Unit Plan of Work. March 1991.

United States Geological Survey, 1986. Quality of Ground Water in the Payette River Basin, Idaho. United States Geological Survey. Water Resources Investigation Report 86-4013.

University of Idaho. 1986. Ground Water Resources in a Portion of Payette County, Idaho. Idaho Water Resources Research Institute. University of Idaho. Moscow, Idaho. April 1986.

## Attachment A

Chilco Service Area Susceptibility Analysis Worksheets

## **Ground Water Susceptibility**

Public Water System Name : CHILCO SERVICE AREA Source: WELL #1

Public Water System Number : 1280048 6/6/01 8:15:24 AM

| 1. System Construction  | VOC          | SOC<br>Score<br>0<br>0<br>NO | Microbial Score 0 |
|---|--------------|------------------------------|-------------------|
| Driller Log Available Sanitary Survey (if yes, indicate date of last survey) YES 2000 Well meets IDWR construction standards UNKNOWN 1 Wellhead and surface seal maintained YES 0 Casing and annular seal extend to low permeability unit UNKNOWN 2 Highest production 100 feet below static water level UNKNOWN 1 Well located outside the 100 year flood plain YES 0 Total System Construction Score 4  2. Hydrologic Sensitivity Soils are poorly to moderately drained NO 2 Vadose zone composed of gravel, fractured rock or unknown UNKNOWN 1 Depth to first water > 300 feet UNKNOWN 1 Aquitard present with > 50 feet cumulative thickness UNKNOWN 1 Aquitard present with > 50 feet cumulative thickness UNKNOWN 2  3. Potential Contaminant / Land Use - ZONE 1A (Sanitary Setback) Land Use Zone 1A Farm chemical use high NO NO NO Total Potential Contaminant Source/Land Use Score - Zone 1A Potential Contaminant Source/Land Use Score - Zone 1A NO NO NO O O O O O O O O O O O O O O O   | Score 0 0 NO | Score<br>0<br>0<br>NO        | Score<br>0<br>NO  |
| Sanitary Survey (if yes, indicate date of last survey)  Well meets IDWR construction standards  Wellhead and surface seal maintained  YES  0 Casing and annular seal extend to low permeability unit  Wellhead and surface seal maintained  YES  0 Casing and annular seal extend to low permeability unit  Well located outside the 100 year flood plain  YES  0 Total System Construction Score  4 2. Hydrologic Sensitivity  Soils are poorly to moderately drained  NO  2 Vadose zone composed of gravel, fractured rock or unknown  UNKNOWN  1 Depth to first water > 300 feet  UNKNOWN  1 Aquitard present with > 50 feet cumulative thickness  UNKNOWN  1 Aquitard present with > 50 feet cumulative thickness  UNKNOWN  2 Total Hydrologic Score  6 IOC  3. Potential Contaminant / Land Use - ZONE 1A (Sanitary Setback)  Land Use Zone 1A  Farm chemical use high  NO  NO  Total Potential Contaminant Source/Land Use Score - Zone 1A  Potential Contaminant / Land Use - ZONE 1B (3 YR. TOT)  Contaminant sources present (Number of Sources)  NO  NO  Occore = # Sources X 2 ) 8 Points Maximum  Sources of Class II or III leacheable contaminants or Microbials  NO  NO  Occore = # Sources X 2 ) 8 Points Maximum  Cone IB contains or intercepts a Group 1 Area  NO  NO  Octore III (exp. TOT)  Potential Contaminant / Land Use - ZONE II (6 YR. TOT)   | Score 0 0 NO | Score<br>0<br>0<br>NO        | Score<br>0<br>NO  |
| Well meets IDWR construction standards  Wellhead and surface seal maintained  YES  0 Casing and annular seal extend to low permeability unit  UNKNOWN  2 Highest production 100 feet below static water level  Well located outside the 100 year flood plain  YES  0 Total System Construction Score  2. Hydrologic Sensitivity  Soils are poorly to moderately drained  NO  2 Vadose zone composed of gravel, fractured rock or unknown  UNKNOWN  1 Depth to first water > 300 feet  UNKNOWN  1 Aquitard present with > 50 feet cumulative thickness  UNKNOWN  2 Total Hydrologic Score  6 IOC  3. Potential Contaminant / Land Use - ZONE 1A (Sanitary Setback)  Earn chemical use high  NO  NO  Total Potential Contaminant Source/Land Use Score - Zone 1A  Potential Contaminant / Land Use - ZONE 1B (3 YR. TOT)  Contaminant sources present (Number of Sources)  NO  NO  O  Sources of Class II or III leacheable contaminants or Microbials  NO  NO  O  A Points Maximum  Cone 1B Contaminant / Land Use - ZONE 1I (6 YR. TOT)  Potential Contaminant / Source/Land Use Score - Zone 1B  Less Than 25% Agricultural Land  Total Potential Contaminant Source/Land Use Score - Zone 1B  Potential Contaminant / Land Use - ZONE III (6 YR. TOT)   | Score 0 0 NO | Score<br>0<br>0<br>NO        | Score<br>0<br>NO  |
| Wellhead and surface seal maintained YES 0 Casing and annular seal extend to low permeability unit UNKNOWN 2 Highest production 100 feet below static water level UNKNOWN 1 Well located outside the 100 year flood plain YES 0  **Total System Construction Score**  **I-Hydrologic Sensitivity** Soils are poorly to moderately drained NO 2 Vadose zone composed of gravel, fractured rock or unknown UNKNOWN 1 Depth to first water > 300 feet UNKNOWN 1 Aquitard present with > 50 feet cumulative thickness UNKNOWN 2  **Total Hydrologic Score** **IOC**  **3. Potential Contaminant / Land Use - ZONE 1A (Sanitary Setback)** Farm chemical use high NO   | Score 0 0 NO | Score<br>0<br>0<br>NO        | Score<br>0<br>NO  |
| Casing and annular seal extend to low permeability unit  Highest production 100 feet below static water level  Well located outside the 100 year flood plain  YES  0  Total System Construction Score  4  2. Hydrologic Sensitivity  Soils are poorly to moderately drained  NO  2  Vadose zone composed of gravel, fractured rock or unknown  Depth to first water > 300 feet  Aquitard present with > 50 feet cumulative thickness  UNKNOWN  1  Aquitard present with > 50 feet cumulative thickness  UNKNOWN  2  3. Potential Contaminant / Land Use - ZONE 1A (Sanitary Setback)  Farm chemical use high  NO  NO  NO  Total Potential Contaminant Sources/Land Use Score - Zone 1A  Potential Contaminant / Land Use - ZONE 1B (3 YR. TOT)  Contaminant sources present (Number of Sources)  NO  NO  O  O  4 Points Maximum  O  Source = # Sources X 2 ) 8 Points Maximum  Source of Class II or III leacheable contaminants or Microbials  NO  NO  O  Land use Zone 1B  Less Than 25% Agricultural Land  O  Total Potential Contaminant Source / Land Use Score - Zone 1B  Total Potential Contaminant Source / Land Use Score - Zone 1B  O  Total Potential Contaminant Source / Land Use Score - Zone 1B  Less Than 25% Agricultural Land  | Score 0 0 NO | Score<br>0<br>0<br>NO        | Score<br>0<br>NO  |
| Highest production 100 feet below static water level UNKNOWN 1  Well located outside the 100 year flood plain YES 0  Total System Construction Score 4  2. Hydrologic Sensitivity  Soils are poorly to moderately drained NO 2  Vadose zone composed of gravel, fractured rock or unknown UNKNOWN 1  Depth to first water > 300 feet UNKNOWN 1  Aquitard present with > 50 feet cumulative thickness UNKNOWN 2  Total Hydrologic Score 6  BOC  3. Potential Contaminant / Land Use - ZONE 1A (Sanitary Setback) Score Land Use Zone 1A RANGELAND, WOODLAND, NO DACALT NO NO NO NO Total Potential Contaminant Source/Land Use Score - Zone 1A NO NO NO Score # Sources of Class II or III leacheable contaminants or Microbials NO 0  4 Points Maximum 0  Cone 1B Contaminant Source/Land Use Score - Zone 1B Less Than 25% Agricultural Land O Total Potential Contaminant Source/Land Use Score - Zone 1B Less Than 25% Agricultural Land O Total Potential Contaminant Source/Land Use Score - Zone 1B Less Than 25% Agricultural Land O Total Potential Contaminant Source/Land Use Score - Zone 1B Less Than 25% Agricultural Land O Total Potential Contaminant Source/Land Use Score - Zone 1B Less Than 25% Agricultural Land O Total Potential Contaminant / Land Use - ZONE II (6 YR. TOT)  | Score 0 0 NO | Score<br>0<br>0<br>NO        | Score<br>0<br>NO  |
| Well located outside the 100 year flood plain  Total System Construction Score  2. Hydrologic Sensitivity  Soils are poorly to moderately drained  NO  2 Vadose zone composed of gravel, fractured rock or unknown  UNKNOWN  1  Depth to first water > 300 feet  UNKNOWN  1  Aquitard present with > 50 feet cumulative thickness  UNKNOWN  2  Total Hydrologic Score  6  10C  3. Potential Contaminant / Land Use - ZONE 1A (Sanitary Setback)  Land Use Zone 1A  Farm chemical use high  NO  10C, VOC, SOC, or Microbial sources in Zone 1A  NO  NO  Total Potential Contaminant / Land Use - ZONE 1B (3 YR. TOT)  Contaminant sources present (Number of Sources)  NO  O  O  O  4 Points Maximum  Cone 1B Contaminant Source/Land Use Score - Zone 1B  Less Than 25% Agricultural Land  O  Total Potential Contaminant Source/Land Use Score - Zone 1B  O  Total Potential Contaminant Source/Land Use Score - Zone 1B  Less Than 25% Agricultural Land  O  Total Potential Contaminant Source/Land Use Score - Zone 1B  O  Total Potential Contaminant Source/Land Use Score - Zone 1B  O  Total Potential Contaminant Source/Land Use Score - Zone 1B  O  Total Potential Contaminant Source/Land Use Score - Zone 1B  O  Total Potential Contaminant Source/Land Use Score - Zone 1B  O  Total Potential Contaminant Source/Land Use Score - Zone 1B  O  Total Potential Contaminant I Land Use - ZONE II (6 YR. TOT) | Score 0 0 NO | Score<br>0<br>0<br>NO        | Score<br>0<br>NO  |
| Total System Construction Score  2. Hydrologic Sensitivity  Soils are poorly to moderately drained NO 2 Vadose zone composed of gravel, fractured rock or unknown UNKNOWN 1 Depth to first water > 300 feet UNKNOWN 2 Total Hydrologic Score UNKNOWN 2 Total Hydrologic Score IOC  3. Potential Contaminant / Land Use - ZONE 1A (Sanitary Setback) Land Use Zone 1A Farm chemical use high NO NO NO Total Potential Contaminant Sources in Zone 1A Potential Contaminant / Land Use - ZONE 1B (3 YR. TOT)  Contaminant sources present (Number of Sources) NO NO O VScore = # Sources X 2 ) 8 Points Maximum Sources of Class II or III leacheable contaminants or Microbials NO Land use Zone 1B Less Than 25% Agricultural Land Total Potential Contaminant Source / Land Use Score - Zone 1B Less Than 25% Agricultural Land Total Potential Contaminant Source / Land Use Score - Zone 1B Total Potential Contaminant Source / Land Use Score - Zone 1B Less Than 25% Agricultural Land O Total Potential Contaminant Source / Land Use Score - Zone 1B Total Potential Contaminant Source / Land Use Score - Zone 1B Total Potential Contaminant Source / Land Use Score - Zone 1B Less Than 25% Agricultural Land O Total Potential Contaminant / Land Use - ZONE II (6 YR. TOT)   | Score 0 0 NO | Score<br>0<br>0<br>NO        | Score<br>0<br>NO  |
| 2. Hydrologic Sensitivity  Soils are poorly to moderately drained NO 2  Vadose zone composed of gravel, fractured rock or unknown UNKNOWN 1  Depth to first water > 300 feet UNKNOWN 1  Aquitard present with > 50 feet cumulative thickness UNKNOWN 2  Total Hydrologic Score 6  Land Use Zone 1A RANGELAND, WOODLAND, Parm chemical use high NO NO NO NO NO Total Potential Contaminant / Land Use - ZONE 1A (Sanitary Setback) NO NO NO Total Potential Contaminant / Land Use Score - Zone 1A NO NO NO Total Potential Contaminant / Land Use - ZONE 1B (3 YR. TOT)  Contaminant sources present (Number of Sources) NO 0  Score = # Sources X 2 ) 8 Points Maximum 0  Sources of Class II or III leacheable contaminants or Microbials NO 0  4 Points Maximum 0  Zone 1B contains or intercepts a Group 1 Area NO 1  Total Potential Contaminant / Land Use - ZONE II (6 YR. TOT)  | Score 0 0 NO | Score<br>0<br>0<br>NO        | Score<br>0<br>NO  |
| Soils are poorly to moderately drained NO 2  Vadose zone composed of gravel, fractured rock or unknown UNKNOWN 1  Depth to first water > 300 feet UNKNOWN 1  Aquitard present with > 50 feet cumulative thickness UNKNOWN 2  Total Hydrologic Score 6  IOC  3. Potential Contaminant / Land Use - ZONE 1A (Sanitary Setback) Score  Land Use Zone 1A RANGELAND, WOODLAND, Parm chemical use high NO 0  IOC, VOC, SOC, or Microbial sources in Zone 1A NO NO  Total Potential Contaminant / Land Use - ZONE 1B (3 YR. TOT)  Contaminant sources present (Number of Sources) NO 0  Qscore = # Sources X 2 ) 8 Points Maximum 0  Zone 1B contains or intercepts a Group 1 Area NO 0  Potential Contaminant / Land Use - ZONE 1B (2 YR. TOT)  Land use Zone 1B Less Than 25% Agricultural Land 0  Total Potential Contaminant / Land Use - ZONE II (6 YR. TOT)  | Score 0 0 NO | Score<br>0<br>0<br>NO        | Score<br>0<br>NO  |
| Vadose zone composed of gravel, fractured rock or unknown  Depth to first water > 300 feet  Aquitard present with > 50 feet cumulative thickness  UNKNOWN  2  Total Hydrologic Score  6  IOC  3. Potential Contaminant / Land Use - ZONE 1A (Sanitary Setback)  Earm chemical use high  Farm chemical use high  IOC, VOC, SOC, or Microbial sources in Zone 1A  Potential Contaminant Source/Land Use Score - Zone 1A  Potential Contaminant Sources present (Number of Sources)  (Score # Sources X 2 ) 8 Points Maximum  Sources of Class II or III leacheable contaminants or Microbials  NO  O  Land use Zone 1B  Less Than 25% Agricultural Land  O  Potential Contaminant Source / Land Use Score - Zone 1B  Total Potential Contaminant Source / Land Use Score - Zone 1B  O  Potential Contaminant Source / Land Use Score - Zone 1B  O  Potential Contaminant Source / Land Use Score - Zone 1B  O  Potential Contaminant Source / Land Use Score - Zone 1B  O  Potential Contaminant Source / Land Use Score - Zone 1B  O  Potential Contaminant / Land Use - ZONE II (6 YR. TOT)   | Score 0 0 NO | Score<br>0<br>0<br>NO        | Score<br>0<br>NO  |
| Depth to first water > 300 feet UNKNOWN 1 Aquitard present with > 50 feet cumulative thickness UNKNOWN 2  Total Hydrologic Score 6 IOC  3. Potential Contaminant / Land Use - ZONE 1A (Sanitary Setback) Score Land Use Zone 1A RANGELAND, WOODLAND, 0 Farm chemical use high NO 0 IOC, VOC, SOC, or Microbial sources in Zone 1A NO NO Total Potential Contaminant Source/Land Use Score - Zone 1A 0  Potential Contaminant / Land Use - ZONE 1B (3 YR. TOT) Contaminant sources present (Number of Sources) NO 0 (Score = # Sources X 2 ) 8 Points Maximum 0 Sources of Class II or III leacheable contaminants or Microbials NO 0 4 Points Maximum 0 Zone 1B contains or intercepts a Group 1 Area NO 1 Land use Zone 1B Less Than 25% Agricultural Land 0 Total Potential Contaminant / Land Use - ZONE II (6 YR. TOT)  | Score 0 0 NO | Score<br>0<br>0<br>NO        | Score<br>0<br>NO  |
| Aquitard present with > 50 feet cumulative thickness  Total Hydrologic Score  6  10C  3. Potential Contaminant / Land Use - ZONE 1A (Sanitary Setback)  Earm chemical use high  10C, VOC, SOC, or Microbial sources in Zone 1A  Total Potential Contaminant Source/Land Use Score - Zone 1A  Potential Contaminant / Land Use - ZONE 1B (3 YR. TOT)  Contaminant sources present (Number of Sources)  NO  O  O  O  O  O  O  O  O  O  O  O  O  | Score 0 0 NO | Score<br>0<br>0<br>NO        | Score<br>0<br>NO  |
| Total Hydrologic Score  3. Potential Contaminant / Land Use - ZONE 1A (Sanitary Setback)  Land Use Zone 1A  Farm chemical use high  10C, VOC, SOC, or Microbial sources in Zone 1A  Total Potential Contaminant Source/Land Use Score - Zone 1A  Potential Contaminant / Land Use - ZONE 1B (3 YR. TOT)  Contaminant sources present (Number of Sources)  NO  O  Score = # Sources X 2 ) 8 Points Maximum  Sources of Class II or III leacheable contaminants or Microbials  NO  O  4 Points Maximum  NO  D  Cone 1B contains or intercepts a Group 1 Area  NO  Land use Zone 1B  Total Potential Contaminant Source / Land Use Score - Zone 1B  Total Potential Contaminant / Land Use - ZONE II (6 YR. TOT)   | Score 0 0 NO | Score<br>0<br>0<br>NO        | Score<br>0<br>NO  |
| 3. Potential Contaminant / Land Use - ZONE 1A (Sanitary Setback)  Land Use Zone 1A  Farm chemical use high  RANGELAND, WOODLAND,  O  IOC, VOC, SOC, or Microbial sources in Zone 1A  NO  NO  Total Potential Contaminant Source/Land Use Score - Zone 1A  O  Potential Contaminant / Land Use - ZONE 1B (3 YR. TOT)  Contaminant sources present (Number of Sources)  NO  O  (Score = # Sources X 2 ) 8 Points Maximum  Sources of Class II or III leacheable contaminants or Microbials  NO  O  Zone 1B contains or intercepts a Group 1 Area  Land use Zone 1B  Total Potential Contaminant Source / Land Use Score - Zone 1B  Potential Contaminant / Land Use - ZONE II (6 YR. TOT)   | Score 0 0 NO | Score<br>0<br>0<br>NO        | Score<br>0<br>NO  |
| 3. Potential Contaminant / Land Use - ZONE 1A (Sanitary Setback)  Land Use Zone 1A  Farm chemical use high  10C, VOC, SOC, or Microbial sources in Zone 1A  Potential Contaminant Source/Land Use Score - Zone 1A  Potential Contaminant / Land Use - ZONE 1B (3 YR. TOT)  Contaminant sources present (Number of Sources)  (Score = # Sources X 2 ) 8 Points Maximum  Sources of Class II or III leacheable contaminants or Microbials  A Points Maximum  Cone 1B contains or intercepts a Group 1 Area  Land use Zone 1B  Less Than 25% Agricultural Land  Total Potential Contaminant / Land Use - ZONE II (6 YR. TOT)   | Score 0 0 NO | Score<br>0<br>0<br>NO        | Score<br>0<br>NO  |
| Land Use Zone 1A  Farm chemical use high  IOC, VOC, SOC, or Microbial sources in Zone 1A  NO  NO  Total Potential Contaminant Source/Land Use Score - Zone 1A  Potential Contaminant / Land Use - ZONE 1B (3 YR. TOT)  Contaminant sources present (Number of Sources)  NO  Sources of Class II or III leacheable contaminants or Microbials  4 Points Maximum  Zone 1B contains or intercepts a Group 1 Area  Land use Zone 1B  Total Potential Contaminant Source / Land Use - ZONE II (6 YR. TOT)  Potential Contaminant / Land Use - ZONE II (6 YR. TOT)  | 0<br>0<br>NO | 0<br>0<br>NO                 | 0<br>NO           |
| Farm chemical use high NO NO  IOC, VOC, SOC, or Microbial sources in Zone 1A NO NO  Total Potential Contaminant Source/Land Use Score - Zone 1A 0  Potential Contaminant / Land Use - ZONE 1B ( 3 YR. TOT)  Contaminant sources present (Number of Sources) NO 0  (Score = # Sources X 2 ) 8 Points Maximum 0  Sources of Class II or III leacheable contaminants or Microbials NO 0  4 Points Maximum 0  Zone 1B contains or intercepts a Group 1 Area NO 0  Land use Zone 1B Less Than 25% Agricultural Land 0  Total Potential Contaminant Source / Land Use Score - Zone 1B 0  Potential Contaminant / Land Use - ZONE II (6 YR. TOT)   | 0<br>NO      | 0<br>NO                      | NO                |
| Farm chemical use high NO NO  IOC, VOC, SOC, or Microbial sources in Zone 1A NO  Total Potential Contaminant Source/Land Use Score - Zone 1A  Potential Contaminant / Land Use - ZONE 1B ( 3 YR. TOT)  Contaminant sources present (Number of Sources) NO 0  (Score = # Sources X 2 ) 8 Points Maximum 0  Sources of Class II or III leacheable contaminants or Microbials NO 0  4 Points Maximum 0  Zone 1B contains or intercepts a Group 1 Area NO 0  Land use Zone 1B Less Than 25% Agricultural Land 0  Total Potential Contaminant Source / Land Use Score - Zone 1B 0  Potential Contaminant / Land Use - ZONE II (6 YR. TOT)  | NO           | NO                           |                   |
| Total Potential Contaminant Source/Land Use Score - Zone 1A  Potential Contaminant / Land Use - ZONE 1B ( 3 YR. TOT)  Contaminant sources present (Number of Sources)  (Score = # Sources X 2 ) 8 Points Maximum  Sources of Class II or III leacheable contaminants or Microbials  4 Points Maximum  Zone 1B contains or intercepts a Group 1 Area  NO  Land use Zone 1B  Less Than 25% Agricultural Land  Total Potential Contaminant Source / Land Use Score - Zone 1B  Potential Contaminant / Land Use - ZONE II (6 YR. TOT)   |              |                              |                   |
| Potential Contaminant / Land Use - ZONE 1B ( 3 YR. TOT)  Contaminant sources present (Number of Sources)  (Score = # Sources X 2 ) 8 Points Maximum  0  Sources of Class II or III leacheable contaminants or Microbials  NO  4 Points Maximum  0  Zone 1B contains or intercepts a Group 1 Area  NO  Land use Zone 1B  Less Than 25% Agricultural Land  7 Total Potential Contaminant Source / Land Use Score - Zone 1B  Potential Contaminant / Land Use - ZONE II (6 YR. TOT)  | 0            |                              |                   |
| Contaminant sources present (Number of Sources)  (Score = # Sources X 2 ) 8 Points Maximum  Sources of Class II or III leacheable contaminants or Microbials  4 Points Maximum  Zone 1B contains or intercepts a Group 1 Area  NO  Land use Zone 1B  Less Than 25% Agricultural Land  Total Potential Contaminant Source / Land Use Score - Zone 1B  Potential Contaminant / Land Use - ZONE II (6 YR. TOT)   | U            | 0                            | 0                 |
| (Score = # Sources X 2 ) 8 Points Maximum 0  Sources of Class II or III leacheable contaminants or Microbials NO 0  4 Points Maximum 0  Zone 1B contains or intercepts a Group 1 Area NO 0  Land use Zone 1B Less Than 25% Agricultural Land 0  Total Potential Contaminant Source / Land Use Score - Zone 1B 0  Potential Contaminant / Land Use - ZONE II (6 YR. TOT)   |              |                              |                   |
| Sources of Class II or III leacheable contaminants or Microbials  4 Points Maximum  2 Zone 1B contains or intercepts a Group 1 Area  Land use Zone 1B  Contaminant Source / Land Use Score - Zone 1B  Potential Contaminant / Land Use - ZONE II (6 YR. TOT)  | 0            | 0                            | 0                 |
| 4 Points Maximum 0  Zone 1B contains or intercepts a Group 1 Area NO 0  Land use Zone 1B Less Than 25% Agricultural Land 0  Total Potential Contaminant Source / Land Use Score - Zone 1B 0  Potential Contaminant / Land Use - ZONE II (6 YR. TOT)   | 0            | 0                            | 0                 |
| Zone 1B contains or intercepts a Group 1 Area  NO  Land use Zone 1B  Less Than 25% Agricultural Land  O  Total Potential Contaminant Source / Land Use Score - Zone 1B  Potential Contaminant / Land Use - ZONE II (6 YR. TOT)  | 0            | 0                            |                   |
| Land use Zone 1B  Less Than 25% Agricultural Land 0  Total Potential Contaminant Source / Land Use Score - Zone 1B  Potential Contaminant / Land Use - ZONE II (6 YR. TOT)  | 0            | 0                            |                   |
| Total Potential Contaminant Source / Land Use Score - Zone 1B  Potential Contaminant / Land Use - ZONE II (6 YR. TOT)   | 0            | 0                            | 0                 |
| Potential Contaminant / Land Use - ZONE II (6 YR. TOT)  | 0            | 0                            | 0                 |
| ·   | 0            | 0                            | 0                 |
| Contaminant Sources Present NO 0  |              |                              |                   |
| Contaminant Sources Frescht 100   | 0            | 0                            |                   |
| Sources of Class II or III leacheable contaminants or Microbials NO 0   | 0            | 0                            |                   |
| Land Use Zone II Less than 25% Agricultural Land 0  | 0            | 0                            |                   |
| Potential Contaminant Source / Land Use Score - Zone II 0   | 0            | 0                            | 0                 |
| Potential Contaminant / Land Use - ZONE III (10 YR. TOT)  |              |                              |                   |
| Contaminant Source Present YES 1  | 1            | 1                            |                   |
| Sources of Class II or III leacheable contaminants or Microbials YES 1  | 1            | 1                            |                   |
| Is there irrigated agricultural lands that occupy > 50% of Zone NO 0  | 0            | 0                            |                   |
| Total Potential Contaminant Source / Land Use Score - Zone III 2  | 2            | 2                            | 0                 |
| Cumulative Potential Contaminant / Land Use Score 2   |              | 2                            | 0                 |
| 4. Final Susceptibility Source Score 10   | 2            |                              |                   |
| 5. Final Well Ranking Mode  | 10           | 10                           | 10                |

#### **Ground Water Susceptibility**

| Public Water System Name : CHILCO SERVICE AREA                   | Source:                         | WELL #2  |          |          |          |
|--|---------------------------------|----------|----------|----------|----------|
| Public Water System Number: 1280048                              | 6/6/01 8:15                     | :39 AM   |          |          |          |
| 1. System Construction   |                                 | SCORE    |          |          |          |
| Drill Date   | 11/2                            |          |          |          |          |
| Driller Log Available  | YES                             |          |          |          |          |
| Sanitary Survey (if yes, indicate date of last survey)           | YES 2000                        |          |          |          |          |
| Well meets IDWR construction standards                           | NO                              | 1        |          |          |          |
| Wellhead and surface seal maintained                             | YES                             | 0        |          |          |          |
| Casing and annular seal extend to low permeability unit          | NO                              | 2        |          |          |          |
| Highest production 100 feet below static water level             | NO                              | 1        |          |          |          |
| Well located outside the 100 year flood plain                    | YES                             | 0        |          |          |          |
| Total System Construction Score                                  |                                 | 4        |          |          |          |
| 2. Hydrologic Sensitivity  |                                 |          |          |          |          |
| Soils are poorly to moderately drained                           | NO                              | 2        |          |          |          |
| Vadose zone composed of gravel, fractured rock or unknown        | YES                             | 1        |          |          |          |
| Depth to first water > 300 feet                                  | NO                              | 1        |          |          |          |
| Aquitard present with > 50 feet cumulative thickness             | NO                              | 2        |          |          |          |
| Total Hydrologic Score   |                                 | 6        |          |          |          |
|  |                                 | IOC      | VOC      | SOC      | Microbia |
| 3. Potential Contaminant / Land Use - ZONE 1A (Sanitary Setba    | ck)                             | Score    | Score    | Score    | Score    |
| Land Use Zone 1A   | RANGELAND, WOODLAND,            | 0        | 0        | 0        | 0        |
| Farm chemical use high   | NO                              | 0        | 0        | 0        |          |
| IOC, VOC, SOC, or Microbial sources in Zone 1A                   | NO                              | NO       | NO       | NO       | NO       |
| Total Potential Contaminant Source/Land Use Score - Zone 1A      |                                 | 0        | 0        | 0        | 0        |
| Potential Contaminant / Land Use - ZONE 1B ( 3 YR. TOT)          |                                 |          |          |          |          |
| Contaminant sources present (Number of Sources)                  | NO                              | 0        | 0        | 0        | 0        |
| (Score = # Sources X 2 ) 8 Points Maximum                        |                                 | 0        | 0        | 0        | 0        |
| Sources of Class II or III leacheable contaminants or Microbials | NO                              | 0        | 0        | 0        |          |
| 4 Points Maximum   |                                 | 0        | 0        | 0        |          |
| Zone 1B contains or intercepts a Group 1 Area                    | NO                              | 0        | 0        | 0        | 0        |
| Land use Zone 1B   | Less Than 25% Agricultural Land | 0        | 0        | 0        | 0        |
| Total Potential Contaminant Source / Land Use Score - Zone 1B    |                                 | 0        | 0        | 0        | 0        |
| Potential Contaminant / Land Use - ZONE II (6 YR. TOT)           |                                 |          |          |          |          |
| Contaminant Sources Present                                      | NO                              | 0        | 0        | 0        |          |
| Sources of Class II or III leacheable contaminants or Microbials | NO                              | 0        | 0        | 0        |          |
| Land Use Zone II   | Less than 25% Agricultural Land | 0        | 0        | 0        |          |
| Potential Contaminant Source / Land Use Score - Zone II          |                                 | 0        | 0        | 0        | 0        |
| Potential Contaminant / Land Use - ZONE III (10 YR. TOT)         |                                 |          |          |          |          |
| Contaminant Source Present                                       | YES                             | 1        | 1        | 1        |          |
| Sources of Class II or III leacheable contaminants or Microbials | YES                             | 1        | 1        | 1        |          |
| Is there irrigated agricultural lands that occupy > 50% of Zone  | NO                              | 0        | 0        | 0        |          |
| Total Potential Contaminant Source / Land Use Score - Zone III   |                                 | 2        | 2        | 2        | 0        |
| Cumulative Potential Contaminant / Land Use Score                |                                 | 2        | 2        | 2        | 0        |
| 4. Final Susceptibility Source Score                             |                                 | 10       | 10       | 10       | 10       |
| 5. Final Well Ranking  |                                 | Moderate | Moderate | Moderate | Moderate |

# POTENTIAL CONTAMINANT INVENTORY LIST OF ACRONYMS AND DEFINITIONS

<u>AST (Aboveground Storage Tanks)</u> – Sites with aboveground storage tanks.

<u>Business Mailing List</u> – This list contains potential contaminant sites identified through a yellow pages database search of standard industry codes (SIC).

<u>CERCLIS</u> – This includes sites considered for listing under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA). CERCLA, more commonly known as Superfund is designed to clean up hazardous waste sites that are on the national priority list (NPL).

<u>Cyanide Site</u> – DEQ permitted and known historical sites/facilities using cyanide.

<u>Dairy</u> – Sites included in the primary contaminant source inventory represent those facilities regulated by Idaho State Department of Agriculture (ISDA) and may range from a few head to several thousand head of milking cows.

<u>Deep Injection Well</u> – Injection wells regulated under the Idaho Department of Water Resources generally for the disposal of stormwater runoff or agricultural field drainage.

**Enhanced Inventory** – Enhanced inventory locations are potential contaminant source sites added by the water system. These can include new sites not captured during the primary contaminant inventory, or corrected locations for sites not properly located during the primary contaminant inventory. Enhanced inventory sites can also include miscellaneous sites added by the Idaho Department of Environmental Quality (DEQ) during the primary contaminant inventory.

Floodplain - This is a coverage of the 100year floodplains.

<u>Group 1 Sites</u> – These are sites that show elevated levels of contaminants and are not within the priority one areas.

<u>Inorganic Priority Area</u> – Priority one areas where greater than 25% of the wells/springs show constituents higher than primary standards or other health standards.

<u>Landfill</u> – Areas of open and closed municipal and non-municipal landfills.

<u>LUST (Leaking Underground Storage Tank)</u> – Potential contaminant source sites associated with leaking underground storage tanks as regulated under RCRA.

<u>Mines and Quarries</u> – Mines and quarries permitted through the Idaho Department of Lands.)

<u>Nitrate Priority Area</u> – Area where greater than 25% of wells/springs show nitrate values above 5mg/l.

#### NPDES (National Pollutant Discharge Elimination System)

 Sites with NPDES permits. The Clean Water Act requires that any discharge of a pollutant to waters of the United States from a point source must be authorized by an NPDES permit.

<u>Organic Priority Areas</u> – These are any areas where greater than 25 % of wells/springs show levels greater than 1% of the primary standard or other health standards.

<u>Recharge Point</u> – This includes active, proposed, and possible recharge sites on the Snake River Plain.

**RICRIS** – Site regulated under **Resource Conservation Recovery Act (RCRA)**. RCRA is commonly associated with the cradle to grave management approach for generation, storage, and disposal of hazardous wastes.

SARA Tier II (Superfund Amendments and Reauthorization Act Tier II Facilities) – These sites store certain types and amounts of hazardous materials and must be identified under the Community Right to Know Act.

Toxic Release Inventory (TRI) – The toxic release inventory list was developed as part of the Emergency Planning and Community Right to Know (Community Right to Know) Act passed in 1986. The Community Right to Know Act requires the reporting of any release of a chemical found on the TRI list.

<u>UST (Underground Storage Tank)</u> – Potential contaminant source sites associated with underground storage tanks regulated as regulated under RCRA.

<u>Wastewater Land Applications Sites</u> – These are areas where the land application of municipal or industrial wastewater is permitted by DEQ.

<u>Wellheads</u> – These are drinking water well locations regulated under the Safe Drinking Water Act. They are not treated as potential contaminant sources.

**NOTE:** Many of the potential contaminant sources were located using a geocoding program where mailing addresses are used to locate a facility. Field verification of potential contaminant sources is an important element of an enhanced inventory.

Where possible, a list of potential contaminant sites unable to be located with geocoding will be provided to water systems to determine if the potential contaminant sources are located within the source water assessment area.